

JUN 07 2018



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

003849

D412-742-011
Job Sheet 178417



Part No: D412-742-011

Job Qty: 1 ea

Part Name: Skidtube Fits LH or RH High Gear, DART (Apical) & OEM Cylin. Float Compatible



Part Weight: 0 lbs

Status: Scheduled

Priority: Medium

Job Created: 5/31/18

Job Tracking No:

Due Date: 6/15/18

Created By: Marie Lajeunesse

Type: SOLD

Description:

Note: IPP Rev: A 05.10.13 New Issue KJ/JLM IPP Rev: B 06-06-08 As per DSI9336 JLMIPP Rev: C 07-05-28 As per Rev C JLM IPP rev D 07.11.01 ecn 1053P EC IPP rev E 07.11.27 ecn 1072 EC verified: DD IPP Rev: F 08-09-08 ecn 08-510 DD verified: EC IPP Rev: G 09-01-23 as per DSI9441 DD verified: EC IPP Rev: H 11.11.01 as per DSI9517 REV.B DD verified: EC IPP rev: I 12.01.12 PER IIN REV.E DD VERF: JLM IPP REV: J 17.05.10 AS PER CHG010 DD VERF: JFSIPP REV: K 17.11.02 AS PER IIN-D412-742-1 REV.A DD VERF: DP

Ship Via:

JUN 14 2018

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup hrs	Run Hrs	Workcenter / Supplier	Lead Time	
90	Start up Operation	1 Ea	6/15/18	6/15/18	0.00	0.00	Start Up Stores/Pkg-1		JUN 19 2018
110	Packaging	1 pcs	6/15/18	6/15/18	0.00	0.00	Packaging1-4	DAS 6-89	JUN 19 2018
120	QC	1 pcs	6/15/18	6/15/18	0.00	0.00	QC4	DAS 6-89	JUL 20 2018
130	Packaging	1 pcs	6/15/18	6/15/18	0.00	0.00	Packaging3-2	DAS 6-89	JUL 20 2018
135	DC	1 pcs	6/15/18	6/15/18	0.00	0.00	DC	DAS 6-89	21 JUL 20 2018
140	QC21-FG	1 Ea	6/15/18	6/15/18	0.00	0.00	QC21	DAS 6-89	JUL 20 2018

Part Op 130 - Identify and pack for shipping as per PPP D412-742-011

Descriptions: 135 - Photocopy bluefile and create labels per PPP D412-742-011 CHG010

DAS
21
9-89

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
AN3C37A	Bolt	3 Ea (3 ea)	90-Start up Operation	5074162
AN3C40A	Bolt	2 Ea (2 ea)	90-Start up Operation	5008246
AN3C41A	Bolt	3 Ea (3 ea)	90-Start up Operation	5004930
AN3C42A	Bolt	3 Ea (3 ea)	90-Start up Operation	5041523
AN3C43A	Bolt	3 Ea (3 ea)	90-Start up Operation	5049456
AN3C44A	Bolt	9 Ea (9 ea)	90-Start up Operation	5074163
AN3C47A	Bolt	10 Ea (10 ea)	90-Start up Operation	F122491
AN4C47A	Bolt	4 Ea (4 ea)	90-Start up Operation	5074163
AN4C52A	Bolt	4 Ea (4 ea)	90-Start up Operation	5041524
AN4C53A	Bolt	4 Ea (4 ea)	90-Start up Operation	5037892
AN4C6A	Bolt	16 Ea (16 ea)	90-Start up Operation	FM137198
				5027515

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

DART AEROSPACE Container No: S082149 Part: D412 - 742 - 011 Job No: 178417 Serial No/Batch: S082149 Revision: A Inspector: _____ Exp Date: _____ Instructions: _____ Date: 06/19/10	DISPOSITION	AGAINST DEPARTMENT/PROCESS				
	Rework ☐	Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	
	Scrap ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	
	Use-as-is ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	
	Suspected Unapproved ☐	Large Fab ☐	Composite ☐	Supplier ☐		
Step #:		QTY Effective :			MRB (QSI042) Approval	
Work Order Deviation		Disposition				
					Completed By	
					Lead hand / Supervisor Approval Verification	
					QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY				
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐	
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐	
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐	
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐	
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐	
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐	
Past Expiry Date ☐	Manufacturing Process ☐	OTHER :				
Misidentified ☐	Past Due ☐					

AN4C7A	Bolt	4 Ea (4 ea)	90-Start up Operation	5027516
AN6C12A	Bolt	8 Ea (8 ea)	90-Start up Operation	5038753
D2571	Saddle, Fwd, Out	1 Ea (1 ea)	90-Start up Operation	5057096
D2572	Saddle, Fwd, In	1 Ea (1 ea)	90-Start up Operation	5072786
D2573	Saddle, Aft, Out	1 Ea (1 ea)	90-Start up Operation	5058306
D2574	Saddle, Aft, In	1 Ea (1 ea)	90-Start up Operation	5077018
D2747	Set Screw	4 Ea (4 ea)	90-Start up Operation	5050339
D2876	Saddle Spacer	2 Ea (2 ea)	90-Start up Operation	5057897
D2877	Saddle Spacer	2 Ea (2 ea)	90-Start up Operation	5053543
D3403-1	Bushing	8 Ea (8 ea)	90-Start up Operation	5074284x3
D3403-3	Bushing	8 Ea (8 ea)	90-Start up Operation	5073954x5
D3403-5	Bushing	8 Ea (8 ea)	90-Start up Operation	5045146
D3405-041	Ground Handling Lug	1 Ea (1 ea)	90-Start up Operation	5051140
D3405-043	Ground Handling Lug	1 Ea (1 ea)	90-Start up Operation	5068729
D3407-041	Tow Ring	1 Ea (1 ea)	90-Start up Operation	505054172
D3417-3	Washer	2 Ea (2 ea)	90-Start up Operation	505054172
D3456-1	Washer	1 Ea (1 ea)	90-Start up Operation	7149290
D3533-1	Set Screw	2 Ea (2 ea)	90-Start up Operation	5057206
D3591-1	Bushing	2 Ea (2 ea)	90-Start up Operation	5050331
D3672-11	Washer	8 Ea (8 ea)	90-Start up Operation	5002403
D3672-3	Washer, Phenolic	32 Ea (32 ea)	90-Start up Operation	#133082
D3672-9	Washer	8 Ea (8 ea)	90-Start up Operation	5027022
D412-742-015	Electric Step	1 Ea (1 ea)	90-Start up Operation	7133084
D412-742-041	Repl. Skidtube Fits LH or RH, High Gear, DART (Apical) & OEM Cyl. Float Comp.	1 Ea (1 ea)	90-Start up Operation	787638
MS21043-3	Nut	33 Ea (33 ea)	90-Start up Operation	50437188
MS21043-4	Nut	29 Ea (29 ea)	90-Start up Operation	5034415
NAS1149C0332R Washer		66 Ea (66 ea)	90-Start up Operation	5062296
NAS1149C0432R Washer		32 Ea (32 ea)	90-Start up Operation	5049837
NAS1149C0632R Washer		8 pcs (8 ea)	90-Start up Operation	5050052
				FM136318.0

Job Allocations

Operation	Component Part	Required	Inventory	Allocated
90-Start up Operation	AN3C37A	3	125	0
	AN3C40A	2	64	0
	AN3C41A	3	472	0
	AN3C42A	3	50	0
	AN3C43A	3	45	0
	AN3C44A	9	32	0
	AN3C47A	10	27	0
	AN4C47A	4	56	0

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐									
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval							
Description Work Order Deviation			Disposition								
			Completed By								
			Lead hand / Supervisor Approval Verification								
			QC / QA Coordinator Approval								
Root Cause <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;"> Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ </td> <td style="width: 33%;"> No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐ </td> <td style="width: 33%;"> Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ </td> </tr> </table>			Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	FAULT CATEGORY <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;"> Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ </td> <td style="width: 33%;"> Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ </td> <td style="width: 33%;"> Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐ </td> </tr> </table>			Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
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OTHER : _____											

AN4C52A	4	67	0
AN4C53A	4	43	0
AN4C6A	16	451	0
AN4C7A	4	79	0
AN6C12A	8	92	0
D2571	1	25	0
D2572	1	22	0
D2573	1	10	0
D2574	1	6	0
D2747	4	264	0
D2876	2	71	0
D2877	2	74	0
D3403-1	8	35	0
D3403-3	8	47	0
D3403-5	8	57	0
D3405-041	1	30	0
D3405-043	1	33	0
D3407-041	1	17	0
D3417-3	2	16	0
D3456-1	1	41	0
D3533-1	2	176	0
D3591-1	2	23	0
D3672-11	8	568	0
D3672-3	32	1,355	0
D3672-9	8	819	0
D412-742-015	1	1	0
D412-742-041	1	0	0
MS21043-3	33	965	0
MS21043-4	29	810	0
NAS1149C0332R	66	6,681	0
NAS1149C0432R	32	2,195	0
NAS1149C0632R	8	187	0

Part Specifications

Specifications could not be found.

Plex 5/31/18 12:43 PM Dart.lajeunesse.marie

5093748

WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed:

Date:

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐					

PAGE 1 OF 1

Description: FLOAT SKIDTUBE[illegible]